

**First year M Phil in Translational Ayurveda Regular Examinations
January 2023**

Paper I – Research Methodology and Medical statistics

Time: 3 hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Answer any five questions

(5x20=100)

All questions carry equal marks

1. What is sampling and explain in brief on probability and non- probability sampling giving examples. Explain standard error and its significance. Difference between standard error and standard deviation.
2. What is evidence-based medicine and hierarchy of evidence generation. Write about the strength and weakness of common study designs.
3. After prescribing three different training exercise regimes to same group of patients on three different occasions, pain sensation was measured. If pain score was distributed normally, which statistical method is suitable to determine whether the pain sensation varied significantly in three different occasions within the same group. Explain the statistical method.
4. Give a detailed account on the steps involved in the development of a diagnostic tool.
5. Give a brief account on the evolution of ethical principles in health research and development of important guidelines on ethics. Discuss the importance of ensuring privacy and confidentiality in research.
6. What is qualitative research and explain the different methods of qualitative research.
7. Elaborate hypothesis and its types. Illustrate different measures to test a hypothesis and explain in detail about any one measure giving suitable examples.
